

PLANT SPECIES OF SPECIAL CONCERN

APRIL 1990

The Montana Natural Heritage Program (MTNHP) is conducting an inventory of the elements of biological diversity in Montana. The inventory includes plant species, animal species, and plant communities that are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 349 plant taxa of special concern in Montana is used to direct data acquisition by the MTNHP. It has been developed from numerous sources, including published and unpublished scientific literature, herbarium specimens, the Montana Rare Plant Project files (University of Montana), knowledgeable individuals, and field research. This list is dynamic, and is revised as new data become available to the MTNHP.

Written comments and suggestions are continually needed on this list, particularly regarding recommended additions or deletions. New locational information for any of these taxa is also being solicited. The MTNHP can supply current locational information and status data for most of these taxa.

Each plant taxon is ranked on the basis of its global (range-wide) rarity, and its rarity within Montana. These ranks are assigned according to a standardized procedure used by most Natural Heritage Programs, and are defined as follows:

GLOBAL

<u>RANK</u>	<u>Definition</u>
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G1	Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
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G2	Imperiled globally because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
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G3	Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other
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factors; in the range of 21 to 100 occurrences.

G4 Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G5 Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GU Possibly in peril range-wide, but status uncertain; more information needed.

GH Historically known; may be rediscovered.

GX Believed to be extinct throughout range; historical records only, continue search.

HYB Subfertile or sterile hybrid.

STATE

<u>RANK</u>	<u>Definition</u>
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S1	Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state.
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S2	Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state.
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S3	Rare in Montana (on the order of 21+ occurrences).
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S4	Apparently secure in Montana.
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S5	Demonstrably secure in Montana.
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SU	Possibly in peril in Montana, but status uncertain; more information needed.
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SH	Historically known in Montana; may be rediscovered.
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SX	Apparently extirpated from Montana.
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HYB Subfertile or sterile hybrid.

Other codes:

Q Taxonomic questions or problems involved, more information needed; appended to the global rank.

T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are constantly being revised or completed; these updated rankings will appear on future revised lists.

USF&WS Status: The symbols in this column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985, 1990), and indicate the status of a taxon with respect to the federal Endangered Species Act of 1973:

E Endangered (none in Montana).

T Threatened (none in Montana).

P Proposed E or T (none in Montana).

C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened; **one in Montana**).

C2 Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling; **18 in Montana**).

C2*Category 2, and the taxon is possibly extinct (none in Montana).

3A Taxa for which the USFWS has persuasive evidence of extinction (none in Montana).

3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."

3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat (**19 in Montana**).

USFS Status: The categories indicated in this column are those

defined by the U.S. Forest Service manual (2670.22). These taxa are listed as such by the Regional Forester (Northern Region), and indicate their status on Montana National Forests (51 on sensitive list, 46 on watch list).

Selected references:

Dorn, R.D. 1984. Vascular Plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Federal Register. 1980. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569. 15 December 1980.

Federal Register. 1983. Endangered and threatened wildlife and plants: Supplement to review of plant taxa for listing; proposed rule. 48(229): 53640-53670. 28 November 1983.

Federal Register. 1985. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species; Notice of review. 50(188): 39525-39584. 27 September 1985.

Federal Register. 1990. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species; Notice of review. 55(35): 6183-6229. 21 February 1990.

Lesica, P., G. Moore, K.M. Peterson, and J.H. Rumely (Montana Rare Plant Project). 1984. Vascular Plants of Limited Distribution in Montana. Vol. 43, Monograph No. 2, Montana Academy of Sciences, Supplement to the Proceedings. 61 pp.

Compiled by J. Stephen Shelly
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MONTANA NATURAL HERITAGE PROGRAM
Plant Species of Special Concern

Name MTNHP code	Family	Global Rank State Rank	USF&WS Status	USFS Status
VASCULAR PLANTS				
ADOXA MOSCHATELLINA PDADO01010	ADOXACEAE	G5 S1		NONE
AGASTACHE CUSICKII PDLAM03030	LAMIACEAE	G3G4 S1	3C	NONE
AGOSERIS SP 1 PDAST090C0	ASTERACEAE	G2 S1		WATCH LIST
ALLIUM ACUMINATUM PMLIL02020	LILIACEAE	G5 S1		NONE
ALLIUM COLUMBIANUM PMLIL022R0	LILIACEAE	G3 S1		NONE
ALLIUM FIBRILLUM PMLIL020X0	LILIACEAE	G4 S1		SENSITIVE LIST
ALLIUM PARVUM PMLIL021P0	LILIACEAE	G5 S1		NONE
ALLIUM SIMILLIMUM PMLIL02270	LILIACEAE	G4 S1S2		NONE
ALLOTROPA VIRGATA PDERI01010	ERICACEAE	G4 S1		NONE
AMMANNIA COCCINEA PDLYT01020	LYTHRACEAE	G5 S1		NONE
AMORPHA CANESCENS PDFAB08020	FABACEAE	G5 SX		NONE
ANTENNARIA DENSIFOLIA PDAST0H160	ASTERACEAE	G3G4 S1		NONE
ANTENNARIA PULCHERRIMA PDAST0H0L0	ASTERACEAE	G3G4 S1		SENSITIVE LIST
AQUILEGIA BREVISTYLA PDRAN05020	RANUNCULACEAE	G5 S1		WATCH LIST
AQUILEGIA FORMOSA PDRAN050B0	RANUNCULACEAE	G4G5 S1		NONE
ARABIS FECUNDA PDBRA06290	BRASSICACEAE	G2 S2	C2	WATCH LIST
ARABIS LIGNIFERA PDBRA06120	BRASSICACEAE	G5 S1		NONE

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ARCTOSTAPHYLOS PATULA PDERI04130	ERICACEAE	G5 S1		NONE
ARENARIA KINGII PDCAR040D0	CARYOPHYLLACEAE	G4 S1		WATCH LIST
ARTEMISIA NORVEGICA VAR SAXATILIS PDAST0S071	ASTERACEAE	G? S1		NONE
ASCLEPIAS STENOPHYLLA PDASC021U0	ASCLEPIADACEAE	G4G5 S1		NONE
ASPLENIUM TRICHOMANES PPASP021K0	ASPLENIACEAE	G5 S1		WATCH LIST
ASTER FRONDOSUS PDAST0T160	ASTERACEAE	G4 S1		NONE
ASTER PTARMICOIDES PDAST8P1F0	ASTERACEAE	G5 S1		NONE
ASTRAGALUS ARETIOIDES PDFAB0F0R0	FABACEAE	G4 S2		NONE
ASTRAGALUS ARGOPHYLLUS PDFAB0F0S0	FABACEAE	G5 S1		NONE
ASTRAGALUS BARRII PDFAB0F150	FABACEAE	G3 S3	C2	SENSITIVE LIST
ASTRAGALUS CERAMICUS VAR APUS PDFAB0F1V1	FABACEAE	G4T3 S1	3C	NONE
ASTRAGALUS CHAMAELEUCE PDFAB0F1X0	FABACEAE	G5 S1		NONE
ASTRAGALUS CONVALLARIUS PDFAB0F2D0	FABACEAE	G5 S1		NONE
ASTRAGALUS GEYERI PDFAB0F3M0	FABACEAE	G5 S1		NONE
ASTRAGALUS GRAYI PDFAB0F3V0	FABACEAE	G? S1		NONE
ASTRAGALUS LENTIGINOSUS VAR SALINUS PDFAB0F4QR	FABACEAE	G5T5 S2		NONE
ASTRAGALUS LEPTALEUS PDFAB0F4R0	FABACEAE	G4 S1		WATCH LIST
ASTRAGALUS MOLYBDENUS PDFAB0F5M0	FABACEAE	G3 S1		SENSITIVE LIST

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ASTRAGALUS OREGANUS PDFAB0F6D0	FABACEAE	G? S1		NONE
ASTRAGALUS PLATYTROPIS PDFAB0F6X0	FABACEAE	G5 S1		NONE
ASTRAGALUS RACEMOSUS PDFAB0F7C0	FABACEAE	G5 S1		NONE
ASTRAGALUS SCAPHOIDES PDFAB0F7V0	FABACEAE	G3 S1	C2	NONE
ASTRAGALUS TERMINALIS PDFAB0F8U0	FABACEAE	G3G4 S2		NONE
ATHYSANUS PUSILLUS PDBRA08010	BRASSICACEAE	G4 S1		SENSITIVE LIST
ATRIPLEX TRUNCATA PDCHE04230	CHENOPODIACEAE	G5 SH		NONE
BACOPA ROTUNDIFOLIA PDSCR06080	SCROPHULARIACEAE	G5 S1		NONE
BALSAMORHIZA MACROPHYLLA PDAST11070	ASTERACEAE	G3G4 S1		WATCH LIST
BIDENS BECKII PDAST6A011	ASTERACEAE	G5 S2		NONE
BIDENS COMOSA PDAST181S0	ASTERACEAE	G5 S1		NONE
BIDENS VULGATA VAR SCHIZANTHA PDAST181N1	ASTERACEAE	G5T? S1		NONE
BOISDUVALIA DENSIFLORA PDONA01020	ONAGRACEAE	G5 S1		NONE
BOTRYCHIUM CRENULATUM PPOPH010L0	OPHIOGLOSSACEAE	G1G3Q S1	C2	WATCH LIST
BOTRYCHIUM HESPERIUM PPOPH010Q0	OPHIOGLOSSACEAE	G3? S1		NONE
BOTRYCHIUM MINGANENSE PPOPH010R0	OPHIOGLOSSACEAE	G4 S1		WATCH LIST
BOTRYCHIUM MONTANUM PPOPH010K0	OPHIOGLOSSACEAE	G2G3 S2		NONE
BOTRYCHIUM PARADOXUM PPOPH010J0	OPHIOGLOSSACEAE	G1 S1	C2	SENSITIVE LIST

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BRASENIA SCHREBERI PDNYM01010	NYMPHAEACEAE	G5 S1		NONE
CALAMAGROSTIS TWEEDYI PMPOA17150	POACEAE	G3 S1	C2	SENSITIVE LIST
CALOCHORTUS BRUNEAUNIS PMLIL0D070	LILIACEAE	G5 S1		NONE
CAMISSONIA ANDINA PDONA03010	ONAGRACEAE	G4 S1		NONE
CAMISSONIA MINOR PDONA03110	ONAGRACEAE	G? S1		NONE
CAMISSONIA SCAPOIDEA PDONA031G0	ONAGRACEAE	G5 S1		NONE
CARDAMINE RUPICOLA PDBRA0K130	BRASSICACEAE	G2G3 S2S3	3C	WATCH LIST
CAREX AMPLIFOLIA PMCYP030N0	CYPERACEAE	G3G4 S1		NONE
CAREX CHORDORRHIZA PMCYP032U0	CYPERACEAE	G5 S1		NONE
CAREX COMOSA PMCYP032Y0	CYPERACEAE	G5 S1		NONE
CAREX CRAWEI PMCYP03360	CYPERACEAE	G5 S1		NONE
CAREX EURYCARPA PMCYP034E0	CYPERACEAE	G? S1?		NONE
CAREX GRAVIDA PMCYP035G0	CYPERACEAE	G5 S1		NONE
CAREX IDAHOA PMCYP036E0	CYPERACEAE	G3Q S1	3C	SENSITIVE LIST
CAREX LENTICULARIS VAR DOLIA PMCYP037A3	CYPERACEAE	G5T2 S1	C2	WATCH LIST
CAREX LIVIDA PMCYP037L0	CYPERACEAE	G5 S1		SENSITIVE LIST
CAREX MARITIMA PMCYP03860	CYPERACEAE	G4G5 S1		NONE
CAREX MULTICOSTATA PMCYP038Y0	CYPERACEAE	G5 S1		WATCH LIST

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CAREX NEUROPHORA PMCYP03980	CYPERACEAE	G4 S1		NONE
CAREX OCCIDENTALIS PMCYP039M0	CYPERACEAE	G4 SU		WATCH LIST
CAREX PAUPERCUA PMCYP03A70	CYPERACEAE	G5 S1		SENSITIVE LIST
CAREX PETRICOSA PMCYP03AF0	CYPERACEAE	G4 S1		NONE
CAREX SCOPARIA PMCYP03C90	CYPERACEAE	G5 S1		NONE
CAREX STENOPTILA PMCYP03CX0	CYPERACEAE	G? SU		NONE
CAREX SYCHNOCEPHALA PMCYP03DE0	CYPERACEAE	G4 S1		NONE
CAREX TENUIFLORA PMCYP03DL0	CYPERACEAE	G5 S1		NONE
CAREX TORREYI PMCYP03DT0	CYPERACEAE	G4 S1		NONE
CAREX VALLICOLA PMCYP03EA0	CYPERACEAE	G5 SU		NONE
CASTILLEJA CERVINA PDSCR0D0B0	SCROPHULARIACEAE	G3G4 S1		NONE
CASTILLEJA COVILLEANA PDSCR0D0K0	SCROPHULARIACEAE	G3G4 S1		SENSITIVE LIST
CASTILLEJA EXILIS PDSCR0D0W0	SCROPHULARIACEAE	G5 SU		NONE
CASTILLEJA GRACILLIMA PDSCR0D150	SCROPHULARIACEAE	G3G4 SU		WATCH LIST
CASTILLEJA LONGISPICA PDSCR0D1W0	SCROPHULARIACEAE	G4 SU		WATCH LIST
CASTILLEJA RUSTICA PDSCR0D2V0	SCROPHULARIACEAE	G? SU		NONE
CEANOTHUS HERBACEUS PDRHA040K0	RHAMNACEAE	G5 SX		SENSITIVE LIST
CELASTRUS SCANDENS PDCEL03020	CELASTRACEAE	G5 S1		NONE

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7CENTAURIUM EXALTATUM PDGEN02060	GENTIANACEAE	G5 SH		NONE
CENTUNCULUS MINIMUS PDPRI01020	PRIMULACEAE	G5 SH		NONE
CERCOCARPUS MONTANUS VAR GLABER PDROS08023	ROSACEAE	G5TU S1		NONE
CHRYOSPLENIUM TETRANDRUM PDSAX07050	SAXIFRAGACEAE	G4G5 S1		SENSITIVE LIST
CHRYSOTHAMNUS LINIFOLIUS PDAST2C050	ASTERACEAE	G5 SH		NONE
CIRSIUM BREVISTYLUM PDAST2E0B0	ASTERACEAE	G4 S1		NONE
CIRSIUM LONGISTYLUM PDAST2E1P0	ASTERACEAE	G2Q S2	C2	WATCH LIST
CIRSIUM NEOMEXICANUM PDAST2E1W0	ASTERACEAE	G5 S1		NONE
CIRSIUM SUBNIVEUM PDAST2E2S0	ASTERACEAE	G3G4 S1		SENSITIVE LIST
CLARKIA RHOMBOIDEA PDONA050X0	ONAGRACEAE	G4 S1		SENSITIVE LIST
CLAYTONIA LANCEOLATA VAR FLAVA PDPOR03092	PORTULACACEAE	G5T1 S1	C2	SENSITIVE LIST
COLLOMIA TINCTORIA PDPLM020A0	POLEMONIACEAE	G5 SH		NONE
CONIOSELINUM SCOPULORUM PDAPI0P040	APIACEAE	G? S1		NONE
CORDYLANTHUS CAPITATUS PDSCR0J030	SCROPHULARIACEAE	G? S1		NONE
CORYDALIS SEMPERVIRENS PDPAP070B0	PAPAVERACEAE	G4G5 S1S2		NONE
CRYPTANTHA FENDLERI PDBOR0A0X0	BORAGINACEAE	G4 S1		NONE
CRYPTANTHA FLAVOCULATA PDBOR0A100	BORAGINACEAE	G5 S1		NONE
CRYPTANTHA HUMILIS PDBOR0A1A0	BORAGINACEAE	G4? S1?		NONE

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CYPERUS ACUMINATUS PMCP06010	CYPERACEAE	G5 S1		NONE
CYPERUS ERYTHORRHIZOS PMCP06020	CYPERACEAE	G5 S1		NONE
CYPERUS RIVULARIS PMCP06320	CYPERACEAE	G5 S1		NONE
CYPERUS SCHWEINITZII PMCP06360	CYPERACEAE	G5 S1		NONE
CYPRIPEDIUM CALCEOLUS VAR PARVIFLORUM PMORC0Q090	ORCHIDACEAE	G5T3 S2		SENSITIVE LIST
CYPRIPEDIUM FASCICULATUM PMORC0Q060	ORCHIDACEAE	G3 S1	3C	WATCH LIST
CYPRIPEDIUM PASSERINUM PMORC0Q0A0	ORCHIDACEAE	G4G5 S2		SENSITIVE LIST
CYSTOPTERIS MONTANA PPASP08050	ASPLENIACEAE	G5 S1?		NONE
DALEA ENNEANDRA PDFAB1A0D0	FABACEAE	G5 S1		NONE
DALEA VILLOSA PDFAB1A1Q0	FABACEAE	G? S1		NONE
DELPHINIUM ANDERSONII PDRAN0B030	RANUNCULACEAE	G5 S1		WATCH LIST
DELPHINIUM BURKEI PDRAN0B090	RANUNCULACEAE	G4 S1		NONE
DELPHINIUM GEYERI PDRAN0B0L0	RANUNCULACEAE	G5 SU		NONE
DICHANTHELIUM OLIGOSANTHES PMPOA240Q0	POACEAE	G5 SH		NONE
DOWNINGIA LAETA PDCAM06080	CAMPANULACEAE	G5 S1		NONE
DRABA APICULATA PDBRA11050	BRASSICACEAE	G4G5 S1		NONE
DRABA DENSIFOLIA PDBRA110W0	BRASSICACEAE	G5 S2		NONE
DRABA FLADNIZENSIS PDBRA110Z0	BRASSICACEAE	G4 S1		NONE

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DRABA MACOUNII PDBRA111H0	BRASSICACEAE	G3 S1		NONE
DRABA PORSILDII PDBRA11200	BRASSICACEAE	G3 S1		NONE
DRABA VENTOSA PDBRA112N0	BRASSICACEAE	G5 S1		NONE
DROSERA ANGLICA PDDRO02010	DROSERACEAE	G5 S2		NONE
DROSERA LINEARIS PDDRO02060	DROSERACEAE	G4 S1		SENSITIVE LIST
DRYAS INTEGRIFOLIA PDROS0L020	ROSACEAE	G5 S1		NONE
DRYOPTERIS CRISTATA PPASP0C080	ASPLENIACEAE	G5 S2		NONE
ELATINE CALIFORNICA PDELTO2040	ELATINACEAE	G5 S1		NONE
ELEOCHARIS BELLA PMCYP09080	CYPERACEAE	G5 SH		NONE
ELEOCHARIS ROSTELLATA PMCYP091P0	CYPERACEAE	G5 S1		NONE
ELEOCHARIS XYRIDIFORMIS PMCYP09200	CYPERACEAE	G4 S1		NONE
ELODEA LONGIVAGINATA PMHYD03060	HYDROCHARITACEAE	G4G5 S1		NONE
ELYMUS FLAVESCENS PMPOA2H070	POACEAE	G4 S1		NONE
ELYMUS INNOVATUS PMPOA2H0A0	POACEAE	G4 S1		NONE
EPILOBIUM SUFFRUTICOSUM PDONA060Y0	ONAGRACEAE	G5 S2		NONE
EPIPACTIS GIGANTEA PMORC11010	ORCHIDACEAE	G4 S1		SENSITIVE LIST
ERIGERON ALLOCOTUS PDAST3M050	ASTERACEAE	G3 S2	3C	NONE
ERIGERON ASPERUGINEUS PDAST3M0D0	ASTERACEAE	G4 S1		SENSITIVE LIST

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ERIGERON EATONII PDAST3M170	ASTERACEAE	G4 S1		NONE
ERIGERON EVERMANNII PDAST3M1B0	ASTERACEAE	G4G5 S1		SENSITIVE LIST
ERIGERON FLAGELLARIS PDAST3M1F0	ASTERACEAE	G4 S1		SENSITIVE LIST
ERIGERON FORMOSISSIMUS PDAST3M1K0	ASTERACEAE	G4 S1		NONE
ERIGERON GRACILIS PDAST3M1R0	ASTERACEAE	G4 S1		NONE
ERIGERON LACKSCHEWITZII PDAST3M4F0	ASTERACEAE	G2Q S2	C2	WATCH LIST
ERIGERON LINEARIS PDAST3M2B0	ASTERACEAE	G5 S1		WATCH LIST
ERIOGONUM OVALIFOLIUM VAR NEVADENSE PDPGN084FC	POLYGONACEAE	G5T4 S1		NONE
ERIOGONUM X LAGOPUS PDPGN083E0	POLYGONACEAE	G2Q S2	C2	NONE
ERIOPHORUM VIRIDICARINATUM PMCPY0A0E0	CYPERACEAE	G5 S1		WATCH LIST
EUPATORIUM MACULATUM PDAST3P140	ASTERACEAE	G5 S1		NONE
EUPATORIUM OCCIDENTALE PDAST3P180	ASTERACEAE	G4 S1		SENSITIVE LIST
EUPHRASIA ARCTICA PDSCR0P030	SCROPHULARIACEAE	G5 S1		NONE
FESTUCA VIVIPARA PMPOA2V1D0	POACEAE	G3G4 S1		NONE
GAULTHERIA OVATIFOLIA PDERI0F040	ERICACEAE	G5 S2		NONE
GENTIANA AQUATICA PDGEN06050	GENTIANACEAE	G4 S1		NONE
GENTIANA GLAUCA PDGEN060E0	GENTIANACEAE	G4 S1		NONE
GENTIANA PROSTRATA PDGEN060M0	GENTIANACEAE	G4G5 S2		NONE

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GENTIANELLA TENELLA PDGEN07070	GENTIANACEAE	G4 S2		NONE
GENTIANOPSIS MACOUNII PDGEN08050	GENTIANACEAE	G5 S1		NONE
GENTIANOPSIS SIMPLEX PDGEN080A0	GENTIANACEAE	G3G4 S1		WATCH LIST
GEOCAULON LIVIDUM PDSAN04010	SANTALACEAE	G4 S2		SENSITIVE LIST
GILIA INCONSPICUA PDPLM040N0	POLEMONIACEAE	G5 S1		NONE
GILIA LEPTOMERIA PDPLM040X0	POLEMONIACEAE	G5 S2?		NONE
GILIA TWEEDYI PDPLM041U0	POLEMONIACEAE	G4G5Q S1		NONE
GLOSSOPETALON NEVADENSE PDCRO03070	CELASTRACEAE	G4? S1		NONE
GOODYERA REPENS PMORC17030	ORCHIDACEAE	G5 S1		NONE
GRATIOLA EBRACTEATA PDSCR0R030	SCROPHULARIACEAE	G5 S1		NONE
GRAYIA SPINOSA PDCHE0C020	CHENOPODIACEAE	G5 SU		NONE
GRINDELIA HOWELLII PDAST470E0	ASTERACEAE	G3 S3	C2	SENSITIVE LIST
HALENIA DEFLEXA PDGEN09010	GENTIANACEAE	G5 S1		NONE
HAPLOPAPPUS ABERRANS PDAST4F010	ASTERACEAE	G3? S1	3C	NONE
HAPLOPAPPUS MACRONEMA PDAST4F0U0	ASTERACEAE	G4 S1		SENSITIVE LIST
HAPLOPAPPUS NANUS PDAST3L0B0	ASTERACEAE	G5 S1		NONE
HAPLOPAPPUS PYGMAEUS PDAST4F100	ASTERACEAE	G4 S1		NONE
HELENIIUM HOOPESII PDAST34010	ASTERACEAE	G4G5 S1		NONE

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HETERANTHERA DUBIA PMPON06010	PONTEDERIACEAE	G5 S1		NONE
HETEROCODON RARIFLORUM PDCAM08010	CAMPANULACEAE	G5 S1		NONE
HOWELLIA AQUATILIS PDCAM0A010	CAMPANULACEAE	G2 S2	C1	SENSITIVE LIST
HUTCHINSIA PROCUMBENS PDBRA1E010	BRASSICACEAE	G5 S1		NONE
IDAHOA SCAPIGERA PDBRA1G010	BRASSICACEAE	G5 S1		NONE
IPOMOPSIS CONGESTA SSP CREBRIFOLIA PDPLM06032	POLEMONIACEAE	G4T4 S1		NONE
IPOMOPSIS PUMILA PDPLM060E0	POLEMONIACEAE	G? S1		NONE
JUNCUS ACUMINATUS PMJUN01030	JUNCACEAE	G5 S1		NONE
JUNCUS COVILLEI PMJUN010V0	JUNCACEAE	G4G5 S1		NONE
JUNCUS COVILLEI VAR COVILLEI PMJUN010V1	JUNCACEAE	G5T5 S1		NONE
JUNCUS COVILLEI VAR OBTUSATUS PMJUN010V2	JUNCACEAE	G5T4 S1		NONE
JUNCUS HALLII PMJUN011E0	JUNCACEAE	G4G5 S1		WATCH LIST
JUNCUS TRIGLUMIS VAR ALBESCENS PMJUN012Z1	JUNCACEAE	G5T5 S1		NONE
KELLOGGIA GALIOIDES PDRUB12010	RUBIACEAE	G5 S1		NONE
KOBRESIA MACROCARPA PMCYP0F020	CYPERACEAE	G5 S1		SENSITIVE LIST
KOBRESIA SIMPLICIUSCULA PMCYP0F030	CYPERACEAE	G5 S1		WATCH LIST
KOCHIA AMERICANA PDCHE0E010	CHENOPODIACEAE	G4 S1		NONE
KOENIGIA ISLANDICA PDPGN0D010	POLYGONACEAE	G4 S1		NONE

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LATHYRUS BIJUGATUS PDFAB25040	FABACEAE	G4G5 S1		NONE
LEPTODACTYLON CAESPITOSUM PDPLM08010	POLEMONIACEAE	G3G4 S1		NONE
LESQUERELLA CARINATA PDBRA1N0B0	BRASSICACEAE	G4 S1	3C	SENSITIVE LIST
LESQUERELLA HUMILIS PDBRA1N1Y0	BRASSICACEAE	G1 S1	C2	SENSITIVE LIST
LESQUERELLA KLAUSII PDBRA1N1Z0	BRASSICACEAE	G3 S3		WATCH LIST
LEWISIA COLUMBIANA PDPOR04030	PORTULACACEAE	G4 S1		NONE
LEWISIA PYGMAEA VAR NEVADENSIS PDPOR040A0	PORTULACACEAE	G5T4 S1		NONE
LIGUSTICUM FILICINUM PDAP118060	APIACEAE	G4 S1		WATCH LIST
LIGUSTICUM PORTERI PDAP118080	APIACEAE	G4G5 S1		WATCH LIST
LILAEA SCILLOIDES PMSCH01010	SCHEUCHZERIACEAE	G? S1		NONE
LINARIA CANADENSIS PDSCR110D0	SCROPHULARIACEAE	G4G5 S1		NONE
LOMATIUM BICOLOR VAR BICOLOR PDAP11B021	APIACEAE	G4T3 S2		NONE
LOMATIUM GEYERI PDAP11B0N0	APIACEAE	G3G4 S1		SENSITIVE LIST
LYCOPODIUM ALPINUM PPLYC01020	LYCOPODIACEAE	G5 S2		NONE
LYCOPODIUM INUNDATUM PPLYC010H0	LYCOPODIACEAE	G5 S1		NONE
LYCOPODIUM OBSCURUM PPLYC010P0	LYCOPODIACEAE	G5 SU		NONE
MACHAERANTHERA COMMIXTA PDAST640D0	ASTERACEAE	G3G4 S1		NONE
MADIA MINIMA PDAST650C0	ASTERACEAE	G4 S1		NONE

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MAIANthemum canadense PMLIL1D010	LILIACEAE	G5 SH		NONE
MALACOTHRIX TORREYI PDAST660L0	ASTERACEAE	G4 S1		NONE
MENTZELIA MONTANA PDLOA03110	LOASACEAE	G4 SU		WATCH LIST
MENTZELIA NUDA PDLOA03150	LOASACEAE	G5 SU		WATCH LIST
MENTZELIA PUMILA PDLOA031G0	LOASACEAE	G? S1		NONE
MERTENSIA BELLA PDBOR0N040	BORAGINACEAE	G4 S1		SENSITIVE LIST
MIMULUS NANUS PDSCR1B1Y0	SCROPHULARIACEAE	G5 S1S2		NONE
MIMULUS PRIMULOIDES PDSCR1B270	SCROPHULARIACEAE	G4 S1		SENSITIVE LIST
MIMULUS SUKSDORFII PDSCR1B2L0	SCROPHULARIACEAE	G5 S1		NONE
MIRABILIS HIRSUTA PDNYC0A0P0	NYCTAGINACEAE	G5 S1		NONE
MYOSOTIS VERNA PDBOR0P0D0	BORAGINACEAE	G5 S1		NONE
NAJAS GUADALUPENSIS PMNAJ01050	NAJADACEAE	G5 S1		NONE
NYMPHAEA TETRAGONA PDNYM050B0	NYMPHAEACEAE	G5 S1		NONE
OENOTHERA PALLIDA VAR IDAHOENSIS PDONA0C0Y2	ONAGRACEAE	G4T4Q S1		NONE
OPHIOGLOSSUM VULGATUM PPOP020B0	OPHIOGLOSSACEAE	G5 S1		NONE
ORCHIS ROTUNDIFOLIA PMORC01010	ORCHIDACEAE	G5 S2		SENSITIVE LIST
OROBANCHE CORYMBOSA PDORO04040	OROBANCHACEAE	G4 S1		WATCH LIST
OROGENIA LINEARIFOLIA PDAP11J020	APIACEAE	G4 S1		WATCH LIST

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OXYTROPIS LAGOPUS VAR CONJUGENS PDFAB2X0A2	FABACEAE	G4T2 S2		NONE
OXYTROPIS PODOCARPA PDFAB2X0K0	FABACEAE	G4 S1		SENSITIVE LIST
PANICUM OCCIDENTALE PMPOA24020	POACEAE	G5 S2		NONE
PAPAVER KLUANENSIS PDPAP0H0H0	PAPAVERACEAE	G4 S1		NONE
PEDICULARIS CONTORTA VAR CTENOPHORA PDSCR1K092	SCROPHULARIACEAE	G5T? SU		WATCH LIST
PEDICULARIS CONTORTA VAR RUBICUNDA PDSCR1K093	SCROPHULARIACEAE	G5T? S1		NONE
PENSTEMON ANGUSTIFOLIUS PDSCR1L0C0	SCROPHULARIACEAE	G5 S1		NONE
PENSTEMON ATTENUATUS VAR MILITARIS PDSCR1L0H2	SCROPHULARIACEAE	G4T4 S1		SENSITIVE LIST
PENSTEMON CARYI PDSCR1L180	SCROPHULARIACEAE	G2G3 S2	3C	NONE
PENSTEMON LEMHIENSIS PDSCR1L3N0	SCROPHULARIACEAE	G3 S2	C2	SENSITIVE LIST
PENSTEMON PAYETTENSIS PDSCR1L4T0	SCROPHULARIACEAE	G4 S1		NONE
PENSTEMON WHIPPLEANUS PDSCR1L6P0	SCROPHULARIACEAE	G5 S1		NONE
PHACELIA INCANA PDHYD0C270	HYDROPHYLLACEAE	G3 S1		NONE
PHACELIA IVESIANA PDHYD0C2G0	HYDROPHYLLACEAE	G? S1		NONE
PHACELIA SCOPULINA PDHYD0C490	HYDROPHYLLACEAE	G4 S1		NONE
PHACELIA THERMALIS PDHYD0C4L0	HYDROPHYLLACEAE	G3G4 S1		NONE
PHIPPSIA ALGIDA PMPOA4T010	POACEAE	G4 S1	3C	NONE
PHLOX ANDICOLA PDPLM0D080	POLEMONIACEAE	G? S1		NONE

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PHLOX KELSEYI VAR MISSOULENSIS PDPLM0D144	POLEMONIACEAE		G4T2Q S2	3C	WATCH LIST
PHYSALIS HEDERAEFOLIA PDSOL0S0D0	SOLANACEAE		G5? SU		NONE
PLAGIOBOTHRYIS LEPTOCLADUS PDBOR0V0N0	BORAGINACEAE		G4 S1		NONE
POLYGONUM DOUGLASII SSP AUSTINAE PDPGN0L0X1	POLYGONACEAE		G4G5TU SU		WATCH LIST
POLYSTICHUM KRUCKEBERGII PPASP0U0B0	ASPLENIACEAE		G5 S1	3C	WATCH LIST
POLYSTICHUM SCOPULINUM PPASP0U0K0	ASPLENIACEAE		G5 S1		NONE
POTAMOGETON OBTUSIFOLIUS PMPOT030R0	POTAMOGETONACEAE		G5 S1S2		SENSITIVE LIST
POTENTILLA BREVIFOLIA PDROS1B0B0	ROSACEAE		G4 S1		NONE
POTENTILLA DIVERSIFOLIA VAR MULTISECTA PDROS1B0H2	ROSACEAE		G5T3T4 H		NONE
POTENTILLA PLATTENSIS PDROS1B1E0	ROSACEAE		G4 S1		NONE
POTENTILLA QUINQUEFOLIA PDROS1B1H0	ROSACEAE		G4 S1		NONE
POTENTILLA UNIFLORA PDROS1B2B0	ROSACEAE		G? S1		NONE
PRIMULA ALCALINA PDPRI080Q0	PRIMULACEAE		G1 SU		NONE
PRUNUS PUMILA PDROS1C160	ROSACEAE		G5 S1		NONE
PSILOCARPHUS BREVISSIMUS PDAST7R010	ASTERACEAE		G5 S1		NONE
PSORALEA HYPOGAEA PDFAB3B0F0	FABACEAE		G3G4 S1		NONE
QUERCUS MACROCARPA PDFAG05190	FAGACEAE		G5 S1		NONE
RANUNCULUS CARDIOPHYLLUS PDRAN0L0K0	RANUNCULACEAE		G4 S1		NONE

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RANUNCULUS GELIDUS PDRAN0L0Y0	RANUNCULACEAE	G4 S1		NONE
RANUNCULUS HYPERBOREUS PDRAN0L1A0	RANUNCULACEAE	G5 S1		NONE
RANUNCULUS JOVIS PDRAN0L1D0	RANUNCULACEAE	G4 S1		SENSITIVE LIST
RANUNCULUS ORTHORHYNCHUS VAR PLATYPHYLLUS PDRAN0L1Y5	RANUNCULACEAE	G5T4 S1		NONE
RANUNCULUS PEDATIFIDUS PDRAN0L220	RANUNCULACEAE	G5 S1		NONE
RANUNCULUS VERECUNDUS PDRAN0L2Q0	RANUNCULACEAE	G4 S1		NONE
RIBES COGNATUM PDGRO02090	GROSSULARIACEAE	G3G4 S1		NONE
RIBES TRISTE PDGRO021K0	GROSSULARIACEAE	G5 S1		NONE
RORIPPA CALYCINA PDBRA27040	BRASSICACEAE	G3 S1	C2	WATCH LIST
ROOTALA RAMOSIOR PDLYT0B030	LYTHRACEAE	G5 S1		NONE
SAGINA NIVALIS PDCAR0P070	CARYOPHYLLACEAE	G5 S1		NONE
SALIX BARRATTIANA PDSAL020D0	SALICACEAE	G5 S1		SENSITIVE LIST
SALIX CASCADENSIS PDSAL020N0	SALICACEAE	G4G5 S1		NONE
SALIX SERISSIMA PDSAL022P0	SALICACEAE	G4 S1		NONE
SALIX WOLFII VAR WOLFII PDSAL02341	SALICACEAE	G4T4 S1		SENSITIVE LIST
SATUREJA DOUGLASII PDLAM1T020	LAMIACEAE	G4 S1		SENSITIVE LIST
SAUSSUREA DENSA PDAST8B050	ASTERACEAE	G4 S1		SENSITIVE LIST
SAUSSUREA WEBERI PDAST8B060	ASTERACEAE	G3 S1	3C	SENSITIVE LIST

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SAXIFRAGA APETALA PDSAX0U220	SAXIFRAGACEAE		G? S2		NONE
SAXIFRAGA TEMPESTIVA PDSAX0U1R0	SAXIFRAGACEAE		G2 S2		SENSITIVE LIST
SCIRPUS CESPITOSUS PMCP0Q060	CYPERACEAE		G5 S1		NONE
SCIRPUS CYPERINUS PMCP0Q0F0	CYPERACEAE		G5 S1		WATCH LIST
SCIRPUS HETEROCHAETUS PMCP0Q0T0	CYPERACEAE		G5 S1		NONE
SCIRPUS HUDSONIANUS PMCP0A010	CYPERACEAE		G5 S1		NONE
SCIRPUS NEVADENSIS PMCP0Q130	CYPERACEAE		G4 S1		NONE
SCIRPUS SUBTERMINALIS PMCP0Q1G0	CYPERACEAE		G4G5 S1		WATCH LIST
SELAGINELLA SELAGINOIDES PPSEL01110	SELAGINELLACEAE		G5 S1		NONE
SELAGINELLA WATSONII PPSEL011D0	SELAGINELLACEAE		G4G5 S1		SENSITIVE LIST
SENECIO AMPECTENS VAR HOLMII PDAST8H022	ASTERACEAE		G? S1		NONE
SENECIO DEBILIS PDAST8H110	ASTERACEAE		G3G4 S1		NONE
SENECIO EREMOPHILUS PDAST8H160	ASTERACEAE		G4 S1		NONE
SENECIO PAUCIFLORUS PDAST8H2D0	ASTERACEAE		G4G5 S1		NONE
SHOSHONEA PULVINATA PDAP12G010	APIACEAE		G2G3 S1	C2	SENSITIVE LIST
SIDALCEA OREGANA PDMAL110K0	MALVACEAE		G5 S1		NONE
SILENE SPALDINGII PDCAR0U1S0	CARYOPHYLLACEAE		G2 S1	C2	WATCH LIST
SPHAERALCEA MUNROANA PDMAL140F0	MALVACEAE		G4 S1		NONE

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SPHENOPHOLIS OBTUSATA VAR MAJOR PMPOA5T031	POACEAE	G5T5 S2		NONE
SPIRAEA X PYRAMIDATA PDROS1Q0J0	ROSACEAE	G3G4 S1		NONE
SPOROBOLUS ASPER PMPOA5V030	POACEAE	G5 S1		NONE
SPOROBOLUS NEGLECTUS PMPOA5V0L0	POACEAE	G5 S1		NONE
STANLEYA TOMETOSA PDBRA2E050	BRASSICACEAE	G4 S1		NONE
STANLEYA VIRIDIFLORA PDBRA2E060	BRASSICACEAE	G4 S1		NONE
STELLARIA CRASSIFOLIA PDCAR0X090	CARYOPHYLLACEAE	G4 S1		NONE
STEPHANOMERIA SPINOSA PDAST8U0E0	ASTERACEAE	G4 S1		NONE
STIPA LETTERMANII PMPOA5X0H0	POACEAE	G4 SU		NONE
STREPTANTHELLA LONGIROSTRIS PDBRA2F010	BRASSICACEAE	G? S1		NONE
SUCKLEYA SUCKLEYANA PDCHE0Q010	CHENOPODIACEAE	G4 S1		NONE
SULLIVANTIA HAPEMANII PDSAX0X010	SAXIFRAGACEAE	G3 S1	3C	NONE
SYNTHYRIS CANBYI PDSCR1W020	SCROPHULARIACEAE	G2G3 S2S3	3C	WATCH LIST
SYNTHYRIS MISSURICA PDSCR1W040	SCROPHULARIACEAE	G4 S1		NONE
TARAXACUM ERIOPHORUM PDAST930G0	ASTERACEAE	G4 S1		NONE
THALICTRUM ALPINUM PDRAN0M010	RANUNCULACEAE	G4G5 S1		SENSITIVE LIST
THELYPODIUM PANICULATUM PDBRA2N0B0	BRASSICACEAE	G? S1		NONE
THELYPODIUM SAGITTATUM PDBRA2N0E0	BRASSICACEAE	G3G4 S1		NONE

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THELYPTERIS PHEGopteris PPASP0X130	ASPLENIACEAE	G5 S1		NONE
THLASPI PARVIFLORUM PDBRA2P050	BRASSICACEAE	G3G4 S1		WATCH LIST
TOFIELDIA PUSILLA PMLIL1Y040	LILIACEAE	G4G5 S1		NONE
TOWNSENDIA CONDENSATA PDAST9C040	ASTERACEAE	G3 S1		NONE
TOWNSENDIA FLORIFER PDAST9C080	ASTERACEAE	G4G5 S1		NONE
TOWNSENDIA INCANA PDAST9C0D0	ASTERACEAE	G4G5 S1S2		NONE
TOWNSENDIA SPATHULATA PDAST9C0M0	ASTERACEAE	G3 S2	3C	NONE
TRIFOLIUM CYATHIFERUM PDFAB400N0	FABACEAE	G4 S1		NONE
TRIFOLIUM ERIOCEPHALUM PDFAB400V0	FABACEAE	G4 S1		NONE
TRIFOLIUM GYMNOCARPON PDFAB40110	FABACEAE	G4 S1		WATCH LIST
TRIFOLIUM LATIFOLIUM PDFAB401A0	FABACEAE	G4 S1		NONE
TRIFOLIUM MICROCEPHALUM PDFAB401J0	FABACEAE	G5 S1		NONE
TRIGLOCHIN CONCINNUM PMSCH03010	SCHEUCHZERIAEAE	G5 S1		NONE
TRisetum ORTHOCHAETUM PMPOA690A0	POACEAE	HYB HYB	C2	WATCH LIST
UTRICULARIA INTERMEDIA PDLNT020A0	LENTIBULARIAEAE	G5 S1		NONE
VACCINIUM MYRTILLOIDES PDERI180M0	ERICACEAE	G5 S1		NONE
VERATRUM CALIFORNICUM PMLIL25020	LILIACEAE	G5 S1SU		NONE
VIBURNUM LENTAGO PDCPR070B0	CAPRIFOLIACEAE	G5 S1		NONE

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VIOLA RENIFOLIA PDVIO041V0	VIOLACEAE		G5 S1		SENSITIVE LIST
WALDSTEINIA IDAHOENSIS PDROS1S020	ROSACEAE		G3 S1	3C	NONE
WOLFFIA COLUMBIANA PMLEM03030	LEMNACEAE		G5 S2		NONE
WOLFFIA PUNCTATA PMLEM03040	LEMNACEAE		G5 S2		NONE
WYETHIA SCABRA PDAST9X0E0	ASTERACEAE		G? S1		NONE
XYLORHIZA GLABRIUSCULA PDASTA1030	ASTERACEAE		G3G5 S1		NONE
ZIZIA AUREA PDAP12F020	APIACEAE		G5 SU		WATCH LIST
NON-VASCULAR PLANTS					
BRYORIA SUBDIVERGENS NLLEC99010	(LICHEN)		G2 S1		NONE